

AMENDMENTS TO THE SPECIFICATION

Please replace the first full paragraph on page 14 with the following rewritten paragraph:

The compounds of the present invention form salts. Specifically, the salts are acid addition salts with inorganic acids or organic acids or salts with inorganic or organic bases and preferred are pharmaceutically acceptable salts. Specifically, such salts include addition salts with mineral acids such as hydrochloric acid, hydrobromic acid, hydroiodic acid, sulfuric acid, nitric acid, and phosphoric acid; or with organic acids such as formic acid, acetic acid, propionic acid, oxalic acid, malonic acid, succinic acid, fumaric acid, maleic acid, lactic acid, malic acid, tartaric acid, citric acid, methanesulfonic acid, ethanesulfonic acid, and benzenesulfonic acid; or acidic amino acids such as aspartic acid and glutamic acid; the salts with inorganic bases such as sodium, potassium, magnesium, calcium, aluminum, and lithium; with organic bases such as methylamine, ethylamine, and ethanolamine; with basic amino acids such as lysine and ornithine; and the like. Furthermore, the salts may be ammonium salts. The ammonium salts may be prepared from specifically ~~those with~~ lower alkyl halides, lower alkyl triflates, lower alkyl tosylates, benzyl halides, or the like, preferably methyl iodide or benzyl chloride.

Please replace the paragraph bridging pages 21, 22 and 23 with the following rewritten paragraph:

The compound (II) for use in the present production method can be obtained by reacting a compound (V) with ~~2,6-trans-dimethylpiperadine~~ 2,5-trans-dimethylpiperadine or its N-substituted derivative (VI) and removing the protective group (P) by a suitable reaction. At this

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time, it is possible to synthesize an optically active (II) by using an optically active (VI). As the optically active (VI), the derivative where P is allyl, benzyl, or tert-butoxycarbonyl is known. Moreover, when (VI) is a racemic one or 2,5-trans-dimethylpiperazine, it is possible to obtain an optically active (II) by conducting the condensation reaction under an optically active environment. Alternatively, an optically active (II) can be obtained by optical resolution of the resulting racemic one. As a method for such optical resolution, it is possible to employ known optically active columns such as optical resolution columns CHIRALCEL OH-H and CHIRALPAK AD-H manufactured by Daicel Chemical Industries, Ltd. Moreover, optical resolution using an optically active acid is also possible and, as optically active carboxylic acids to be used at this time, use can be made of organic acids such as tartaric acid, di-p-toluoyltartaric acid, dibenzoyltartaric acid, camphorsulfonic acid, and mandelic acid. Methods for such optical resolution are described in "Yuki Gosei Handbook (Handbook for Organic Synthesis)" edited by Society of Synthetic Organic Chemistry, Japan, Maruzen, Tokyo, 1990, P760 and the like. At the reaction, it is sometimes advantageous for smooth progress of the reaction to use (VI) excessively, or to conduct the reaction in the presence of an organic base such as N-methylmorpholine, trimethylamine, triethylamine, diisopropylethylamine, N,N-dimethylaniline, pyridine, DMAP, picoline, lutidine, 1,8-bis(trimethylaminonaphthalene), DBU, DBN, DABCO, or LDA, or an inorganic base such as NaH, potassium carbonate, sodium carbonate, calcium carbonate, cesium carbonate, sodium hydrogen carbonate, or sodium hydroxide. Also, it is possible to accelerate the reaction by incorporating a phase transfer catalyst such as tetrabutylammonium bromide or a crown ether such as 18-crown-6 or 15-crown-5. Moreover,

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pyridine or the like can be used also as a solvent. Furthermore, it is also suitable to use an organometallic catalyst as a catalyst and, as such an example, use can be made of conditions described in Yang, Bryant H.; Buchwald, Stephen L., Journal of Organometallic Chemistry (1999), 576(1-2), 125-146, and the like conditions.